MP7 A1

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Innovation for the future

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Modern defensive weapon for flexible deployment

The MP7 A1 of cal. 4.6 mm x 30 has been developed according to the requirement profile elaborated by NATO for a new personal defence weapon. This means that:

- MP7 A1 is compact and lightweight enough to be permanently carried on the body;
- MP7 A1 ammunition is accurate and powerful enough for effective engagement of personnel equipped with NATO CRISAT protection up to 200 m.

The MP7 A1 thus represents a new generation of very compact and performance improved submachine guns which contrary to former conventional submachine guns can also effectively engage protected targets at short and medium ranges. In the course of development of this new weapon and its ammunition the following user groups have been taken into consideration:

- Military and civilian police
- VIP protection personnel
- Military and police special forces
- Military personnel not directly engaged in combat

Thought out functionality

Equipped with the MP7 A1, the user has an optimum weapon for self defence which combines numerous, well thought out characteristics and features many advantages over conventional sub machine guns with pistol calibres:

- Minimum overall dimensions
- Lowest weight
- Fully ambidextrous operation
- Semiautomatic and full automatic fire with full fire control
- Increased magazine capacity
- Highly increased penetration
- Increased accuracy and range (close range performance comparable to 5.56 x 45)
- Considerably increased wound effect especially against protected targets
- Reduced recoil
- One or two handed use like a pistol, shoulder firing like a submachine gun

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A new generation of modular and very compact submachine guns

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Minimum weight and smallest dimensions

In modern armed forces, the majority of troops is not directly involved in combat and is tasked with command, supply and support activities. These group of persons do not necessarily require an assault rifle – the size and weight of which would only hinder them in the fulfilment of their main tasks. What this is a compact, lightweight and efficient weapon to defend themselves against possible enemy attacks. The MP7 A1 is ideally suited to this operational role, with the advantage that it can be permanently carried on the body hindering the user to do his proper.

Ambidextrous operation

In military and police special forces practice there are many situations where two-handed firing of the weapon is required, both by left and right handed shooters.

The extreme permit compact design of the MP7 A1, its low weapon weight and light recoil aimed fire in both the semi-automatic and full auto modes. The ergonomic ambidextrous operating controls permit use by both right and left handed shooters without any impediment.

Increased penetration

Conventional submachine guns using NATO standard 9 mm x 19 ammunition or police specific pistol ammunition have the disadvantage that these ammunition types are ineffective against bullet proof vests. The MP7 A1 eliminates this disadvantage by the use of small calibre steel core ammunition which features a much higher cross sectional density and achieves a penetration and target effect which is unachieved by present handgun calibres, even when similar steel core designs are used.

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Compact, lightweight and efficient weapon for quick defence

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4.6 mm x 30 ammunition family

For the different groups of users and their missions, the following types of ammunition have been developed and optimized.

› Combat Steel 1,7 g
With copper plated steel case bullet for the engagement of protected targets (750 m/sec., 478 J)*.

› Ultimate Combat 2 g
With copper plated steel case bullet for the engagement of protected targets (710 m/sec., 504 J)*.

› Full Metal Jacket Ammunition 2,5 g
For engagement of unprotected and lightly protected targets and for training (640 m/sec., 512 J)*.

› Hollow Point Ammunition 2 g
Transfers a maximum of energy immediately after entering the target medium. The immediate energy transfer and relatively shallow depth of penetration of the Police bullet reduce the collateral danger to a minimum (680 m/sec., 462 J)*.

› Hard Frangible Ammunition 1,7 g
Special purpose ammunition where the bullet disintegrates into tiny fragments on impact and thus causes no more danger to the surroundings (760 m/sec., 491 J)*.

› Subsonic Ammunition 4,3 g
Avoids supersonic signature and yet penetrates the CRISAT target at a range of 30 meters (320 m/sec., 220 J)*.

› Blank Cartridge
Used in combination with the MP7 A1 safety blank firing attachment and safety blank magazine. Permits realistic and safe training.

› Dummy Round
For safe carrying out of loading drills, check of the weapons feed function or the load ability of magazines.

* Muzzle Velocity/Muzzle Energy

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Ammunition with improved penetration and performance as a system solution

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MP7 A1 Silencer

Easy and quick assembly/disassembly of the silencer onto the MP7 A1 flash hider, also after prolonged firing.

- Weapon's firing accuracy not adversely affected by silencer fitted
- Full weapon function on semi and auto with silencer fitted
- Excellent silencing and long service life of silencers
- Unrestricted use of all ammunition sorts having a bullet

MP7 A1 Silencer Specifications:

Weight:	590 g
Length:	222 mm
Silencer tube Ø:	40 mm
Locking bush Ø:	44 mm

MP7 A1 Safety blank firing attachment

The MP7 A1 safety blank firing attachment together with the safety blank magazine and blank cartridges are used for realistic firing practicing in the semi and auto modes.

Should a magazine with live rounds inadvertently have been loaded into the weapon, the safety blank firing attachment is capable of stopping up to 3 bullets fired.

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Special purpose accessories

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Rail for tactical accessories

In addition to the top sight rail, further Picatinny rails can be fitted to the right or left side of the receiver above the forward grip. This permits the fitting of laser aiming units and target designators.

Carrying and handling fixtures

For safe and convenient transport of the MP7 A1 on the user, Heckler & Koch has developed several practical carrying concepts and fixtures allowing the weapon to be quickly deployed.

Add-on night vision unit with adaptor

The MP7 A1 is fully suitable for night fighting. The long Picatinny rail on top of the weapon receiver allows the fitting of a night vision optical sight in addition to a daylight optical sight.

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Special purpose accessories

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Highlights at a glance

- Lightweight and compact high performance calibre
- Extremely compact dimensions
- Extremely low overall weight
- Universally applicable (attack and defence)
- Suitable for use with one hand or both hands
- semi and auto settings with full five central
- Completely ambidextrous operation
- Penetration of NATO CRISAT Target (1.6 mm of Titanium and 20 layers of Kevlar) at over 200 meters ("Ultimate Combat")
- Combination sight (optical/mechanical)
- Long MIL-STD-1913 Picatinny rail
- Efficient silencer
- Tested by German KSK (Special Forces Command), VIP protection squad of the German Military Police, VIP protection squad of the US Armed Forces, British MoD Police and VIP protection squads all over the world

Specifications

Dimensions	
Caliber	4.6 mm x 30
Overall length	
Buttstock retracted	380 mm
Buttstock extracted	590 mm
Overall width	42 mm
Overall height	
with 20 round magazine, without sight	172 mm
Barrel length	180 mm
Twist length (righthand twist)	160 mm
Weights	
MP7 A1 (without magazine)	1900 g
Magazine, empty (20 rounds)	100 g
Magazine, empty (40 rounds)	200 g
Silencer	590 g
Cartridge (2 g steel bullet)	6 g
Other data	
Muzzle velocity	approx. 710 m/s
Muzzle energy E_0	approx. 500 Joule
Rate on fire	approx. 950 rounds per minute

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MP7 A1 Technical Data

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1 Flash hider
2 Front sight
3 Picatinny rail
4 Aperture sight
5 Cocking lever (central)
6 Retractable buttstock
7 Safety/Selector lever (ambidextrous)
8 Magazine catch (ambidextrous)
9 Magazine (20 round)
10 Safety trigger
11 Bolt catch release (ambidextrous)
12 Forward grip

Scale 1:1

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MP7 A1

4.6 mm x 30

Oerlikon Contraves LLMo1

Hensoldt RSA
Red dot sight

EOTech
HOLOgraphic sight

Silencer

AIM Point Red dot sight

20 round
magazine

40 round
magazine

MP7 A1 4.6 mm x 30

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